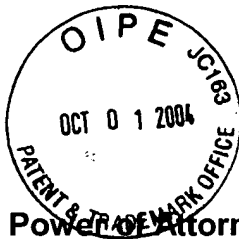




National
Aeronautics and
Space
Administration



RECEIVED

OCT 15 2004

TC 1700

Patent Application

LAR 16307-1

(NASA Case No.)

Declaration, Power of Attorney and Petition - Original Application

As a below named inventor, I hereby declare that: My residence, mailing address and citizenship, are stated below next to my name, I believe I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Methodology For The Effective Stabilization Of Tin-Oxide-Based Oxidation/Reduction Catalysts

the specification of which ☐ is attached hereto, ☒ was filed on (Date) 01/22/2002

as Application Serial No. 10/056,845 and was amended (Date) _____

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information which is known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

_____, _____, the status of which is ☐ patented, ☐ pending, ☐ abandoned.
(Serial No.) (Filing Date)

I hereby claim priority benefits under Title 35, United States Code §119(e) of any United States Provisional Applications listed below:

_____, _____, the status of which is pending.
(Provisional Serial No.) (Filing Date)

POWER OF ATTORNEY: I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Registered practitioner(s) at Customer Number 23351, OR

☐ Registered practitioner(s) listed below:

_____ (Name)	_____ (Reg. No.)	_____ (Name)	_____ (Reg. No.)
_____ (Name)	_____ (Reg. No.)	_____ (Name)	_____ (Reg. No.)
_____ (Name)	_____ (Reg. No.)	_____ (Name)	_____ (Reg. No.)

ADDRESS ALL CORRESPONDENCE TO:

☐ Customer Number _____, OR

☒ Correspondence Address listed below:

Name: Helen M. Galus
Address: Mail Stop 212
NASA Langley Research Center
Hampton, VA 23681-2199

DIRECT TELEPHONE CALLS TO:

Telephone (Complete number to be dialed from USPTO):

757-864-3227 (voice)

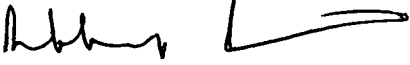
757-864-9190 (facsimile)

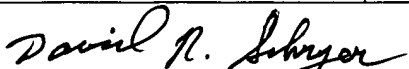
23351

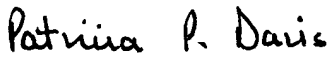
Further, as a named inventor, I certify that the Government of the United States of America, as represented by the Administrator of the National Aeronautics and Space Administration has ☒ an assignment in, or ☐ license to the invention set forth in this application and has the irrevocable right to prosecute this application and to receive the patent.


Wherefore, I pray that Letters Patent be granted to me for this invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification, claims, power of attorney and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	LAST JORDAN	FIRST Jeffrey	MIDDLE OR INITIAL D.
RESIDENCE AND CITIZENSHIP	CITY Williamsburg	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 3909 Strawberry Plains Road	CITY AND STATE (OR COUNTRY) Williamsburg, VA	ZIP CODE 23188
SIGNATURE			DATE 9/7/04

FULL NAME OF INVENTOR	LAST SCHRYER	FIRST David	MIDDLE OR INITIAL R.
RESIDENCE AND CITIZENSHIP	CITY Hampton	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 106 Santa Barbara Drive	CITY AND STATE (OR COUNTRY) Hampton, VA	ZIP CODE 23666
SIGNATURE			DATE 9/03/04

FULL NAME OF INVENTOR	LAST DAVIS	FIRST Patricia	MIDDLE OR INITIAL P.
RESIDENCE AND CITIZENSHIP	CITY Yorktown	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 111 Chris Slade Chase	CITY AND STATE (OR COUNTRY) Yorktown, VA	ZIP CODE 23693
SIGNATURE			DATE 9/20/04

FULL NAME OF INVENTOR	LAST LEIGHTY	FIRST Bradley	MIDDLE OR INITIAL D.
RESIDENCE AND CITIZENSHIP	CITY Gloucester	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 9118 Robin's Neck Road	CITY AND STATE (OR COUNTRY) Gloucester, VA	ZIP CODE 23061
SIGNATURE			DATE 9/20/04

FULL NAME OF INVENTOR	LAST WATKINS	FIRST Anthony	MIDDLE OR INITIAL Neal
RESIDENCE AND CITIZENSHIP	CITY Hampton	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 6 Morning View Court	CITY AND STATE (OR COUNTRY) Hampton, VA	ZIP CODE 23664
SIGNATURE <i>Anthony Neal Watkins</i>			DATE 9/20/2004

FULL NAME OF INVENTOR	LAST SCHRYER	FIRST Jacqueline	MIDDLE OR INITIAL L.
RESIDENCE AND CITIZENSHIP	CITY Hampton	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 106 Santa Barbara Drive	CITY AND STATE (OR COUNTRY) Hampton, VA	ZIP CODE 23666
SIGNATURE <i>Jacqueline L. Schryer</i>			DATE 9/3/2004

FULL NAME OF INVENTOR	LAST OGLESBY	FIRST Donald	MIDDLE OR INITIAL M.
RESIDENCE AND CITIZENSHIP	CITY Virginia Beach	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 3213 Little Island Road	CITY AND STATE (OR COUNTRY) Virginia Beach, VA	ZIP CODE 23456
SIGNATURE <i>Donald M. Oglesby</i>			DATE 9/15/2004

FULL NAME OF INVENTOR	LAST GULATI	FIRST Suresh	MIDDLE OR INITIAL T.
RESIDENCE AND CITIZENSHIP	CITY Elmira	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 49 Saddle Ridge Drive	CITY AND STATE (OR COUNTRY) Elmira, NY	ZIP CODE 14903
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST SUMMERS	FIRST Jerry	MIDDLE OR INITIAL C.
RESIDENCE AND CITIZENSHIP	CITY Charleston	STATE OR FOREIGN COUNTRY West Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 1750 Huber Road	CITY AND STATE (OR COUNTRY) Charleston, WV	ZIP CODE 25314
SIGNATURE <i>Jerry C. Summers</i>			DATE 8/28/04

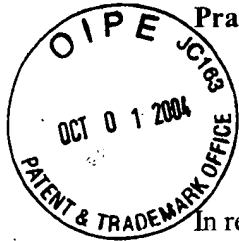
FULL NAME OF INVENTOR	LAST WATKINS	FIRST Anthony	MIDDLE OR INITIAL Neal
RESIDENCE AND CITIZENSHIP	CITY Hampton	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 6 Morning View Court	CITY AND STATE (OR COUNTRY) Hampton, VA	ZIP CODE 23664
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST SCHRYER	FIRST Jacqueline	MIDDLE OR INITIAL L.
RESIDENCE AND CITIZENSHIP	CITY Hampton	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 106 Santa Barbara Drive	CITY AND STATE (OR COUNTRY) Hampton, VA	ZIP CODE 23666
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST OGLESBY	FIRST Donald	MIDDLE OR INITIAL M.
RESIDENCE AND CITIZENSHIP	CITY Virginia Beach	STATE OR FOREIGN COUNTRY Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 3213 Little Island Road	CITY AND STATE (OR COUNTRY) Virginia Beach, VA	ZIP CODE 23456
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST GULATI	FIRST Suresh	MIDDLE OR INITIAL T.
RESIDENCE AND CITIZENSHIP	CITY Elmira	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 49 Saddle Ridge Drive	CITY AND STATE (OR COUNTRY) Elmira, NY	ZIP CODE 14903
SIGNATURE <i>Suresh T Gulati</i>			DATE <i>8/30/04</i>

FULL NAME OF INVENTOR	LAST SUMMERS	FIRST Jerry	MIDDLE OR INITIAL C.
RESIDENCE AND CITIZENSHIP	CITY Charleston	STATE OR FOREIGN COUNTRY West Virginia	COUNTRY OF CITIZENSHIP USA
MAILING ADDRESS	STREET NO. AND NAME 1750 Huber Road	CITY AND STATE (OR COUNTRY) Charleston, WV	ZIP CODE 25314
SIGNATURE			DATE



Practitioner's Docket No. LAR 16307-1-SB

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Jeffrey D. Jordan, David R. Schryer, Patricia P. Davis,
Bradley D. Leighty, Anthony Neal Watkins, Jacqueline L. Schryer,
Donald M. Oglesby, Suresh T. Gulati, and Jerry C. Summers

Application No.: 10/056,845

Group No.: 1754

Filed: 01/22/2002

Examiner: Cam N. Nguyen

For: Methodology for the Effective Stabilization of Tin-Oxide-Based Oxidation/Reduction
Catalysts

RECEIVED

OCT 15 2004

TC 1700

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CONSENT OF THE ASSIGNEE REGARDING THE ASSIGNMENTS

37 CFR § 1.48(a)(5)

ATTACHMENT (c)

Pursuant to the assignments recorded as per the Notice of Recordation of Assignment Document dated July 22, 2002, for Jeffrey D. Jordan, David R. Schryer, Patricia P. Davis, Bradley D. Leighty, Swales Aerospace on Behalf of Anthony Neal Watkins, Swales Aerospace on Behalf of Jacqueline L. Schryer, and Swales Aerospace on Behalf of Donald M. Oglesby, Reel/Frame 012905/0008, of which a courtesy copy is attached, the assignee, the United States of America as represented by the Administrator of the National Aeronautics and Space Administration, hereby gives consent to amend the inventorship to add Suresh T. Gulati and Jerry C. Summers as named inventors on the above referenced patent application.

The undersigned has been granted the authority to act on behalf of the assignee pursuant to the Declaration of Linda B.B. Blackburn enclosed herewith.

Respectfully submitted,

Helen M. Galus
Reg. No. 40,615

23351



Practitioner's Docket No. LAR 16307-1-SB

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Jeffrey D. Jordan, David R. Schryer, Patricia P. Davis,
Bradley D. Leighty, Anthony Neal Watkins, Jacqueline L. Schryer,
Donald M. Oglesby, Suresh T. Gulati, and Jerry C. Summers

Application No.: 10/056,845

Group No.: 1754

Filed: January 22, 2002

Examiner: Cam N. Nguyen

For: Methodology for the Effective Stabilization of Tin-Oxide-Based
Oxidation/Reduction Catalysts

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RECEIVED

OCT 15 2004

TC 1700

STATEMENT FROM EACH PERSON BEING ADDED AS AN INVENTOR

37 CFR § 1.48(a)(1)

ATTACHMENT (a)

The error in inventorship, namely, the omission of Suresh T. Gulati and Jerry C. Summers as named inventors on the above referenced patent application, occurred without deceptive intent on my part.

8-28-04
Date

Jerry C. Summers
Jerry C. Summers

23351



Practitioner's Docket No. LAR 16307-1-SB

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Jeffrey D. Jordan, David R. Schryer, Patricia P. Davis,
Bradley D. Leighty, Anthony Neal Watkins, Jacqueline L. Schryer,
Donald M. Oglesby, Suresh T. Gulati, and Jerry C. Summers

Application No.: 10/056,845

Group No.: 1754

Filed: January 22, 2002

Examiner: Cam N. Nguyen

For: Methodology for the Effective Stabilization of Tin-Oxide-Based
Oxidation/Reduction Catalysts

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RECEIVED

OCT 15 2004

TC 1700

STATEMENT FROM EACH PERSON BEING ADDED AS AN INVENTOR

**37 CFR § 1.48(a)(1)
ATTACHMENT (a)**

The error in inventorship, namely, the omission of Suresh T. Gulati and Jerry C. Summers as named inventors on the above referenced patent application, occurred without deceptive intent on my part.

8/30/04

Date

Suresh T. Gulati

Suresh T. Gulati

23351



UNITED STATES
PATENT AND
TRADEMARK OFFICE

UAR-16307-1-SF

TO
ecm

TJS

JULY 22, 2002

PTAS

NASA LANGLEY RESEARCH CENTER
HELEN M. GALUS
MAIL STOP 212
3 LANGLEY BOULEVARD
HAMPTON, VA 23681

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



102099671A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

23351

RECORDATION DATE: 05/14/2002

REEL/FRAME: 012905/0008

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JORDAN, JEFFREY D.

DOC DATE: 01/24/2002

ASSIGNOR:

SCHRYER, DAVID R.

DOC DATE: 01/24/2002

ASSIGNOR:

DAVIS, PATRICIA P.

DOC DATE: 01/24/2002

ASSIGNOR:

LEIGHTY, BRADLEY D.

DOC DATE: 01/24/2002

ASSIGNOR:

SWALES AEROSPACE ON BEHALF ON
WATKINS, ANTHONY NEAL

DOC DATE: 01/31/2002

ASSIGNOR:

SWALES AEROSPACE ON BEHALF OF
SCHRYER, JACQUELINE L.

DOC DATE: 01/31/2002



Doc. # 2456

012905/0008 PAGE 2

ASSIGNOR:

SWALES AEROSPACE ON BEHALF OF
OGLESBY, DONALD M.

DOC DATE: 01/31/2002

ASSIGNEE:

NATIONAL AERONAUTICS AND SPACE
ADMINISTRATION
WASHINGTON, D.C. 20546-0001

SERIAL NUMBER: 10056845
PATENT NUMBER:

FILING DATE: 01/22/2002
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS